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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,191	06/20/2003	Douglas L. Keil	LAMIP175/P1148	8804
22434 7590 10/26/2007 BEYER WEAVER LLP		EXAMINER ARANCIBIA, MAUREEN GRAMAGLIA		
P.O. BOX 70250 OAKLAND, CA 94612-0250				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/600,191	KEIL ET AL.		
Examiner	Art Unit		
Maureen G. Arancibia	1792		

-The MAIL IND GATE of this communication appears on the cover shed with the correspondence address - THE REPLY PLED 10 Cotober 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal To avoid obandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affaidwir, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 4.1.31; or (3 a Request for Continued Examination (RCE) in compliance with 37 CFR 1.1.14. The reply must be filed within one of the following time penods: The period for reply expires 2 months from the mailing date of the final rejection.		Madreell O. Alalicibia	1732	
1. ☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one or the following replies: (1) an amendment, a fildbart or incompliance with 37 CFR 1.131. or (3 a Request for Continued Examination (RCE) in compliance with 37 CFR 1.131. The reply must be filed within one of the followin time periods: a) ☐ The period for reply expires 3 months from the mailing date of the final rejection. ☐ The period for reply expires 30 months from the mailing date of the final rejection. ☐ The period for reply expires 30 months from the mailing date of the final rejection. ☐ The period for reply expires 30 months from the mailing date of the final rejection. ☐ Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FIR	The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 1.114. The reply must be filed within one of the followin time periods: a) The period for reply expires 3 months from the mailing date of the final rejection, or (2) the date set forth in the final rejection. In event, however, will the statutory period for reply expire and (1) the mailing date of the final rejection, or event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, cheech either box (a) or (b). ONLY CHECK BOX (b). WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 705.07(f). Extensions of time may be obtained under 37 CFR 1.13(a). The date on which the petition under 37 CFR 1.13(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee have been filed any reprise to an appropriate extension fee. By a control of the feel of the filed and feel of filed within the time and feel of filed within the time feel of Appeal was fleed on a filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a). They raise new issues that would require further conside	THE REPLY FILED 10 October 2007 FAILS TO PLACE THIS A	APPLICATION IN CONDITION FO	R ALLOWANCE.	
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Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 10 October 2007 have been fully considered but they are not persuasive.

In response to applicant's argument that Imafuku already teaches a separate embodiment wherein the plasma is confined by "confinement rings" (i.e. the additional electrodes provided in addition to the upper electrode 21 and the susceptor 5 in Figures 2-6 of Imafuku), and that therefore one of ordinary skill in the art, seeking to combine the teachings of Lenz with the teachings of Imafuku would only seek to modify the "confinement rings" already taught by Imafuku, rather than adding confinement rings to the embodiment of Figure 12 of Imafuku wherein the plasma is confined by magnets, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). In the instant case, Examiner maintains the rationale set forth in the Final Rejection mailed 25 July 2007 as to why it would have been obvious to one of ordinary skill in the art to modify the embodiment of Figure 12 of Imafuku according to the teachings of Lenz. Specifically, it would have been obvious to one of ordinary skill in the art, with a reasonable expectation of success, to modify the apparatus taught by Imafuku et al. to incorporate the vertically arranged and moveable confinement rings taught by Lenz, in order, as taught by Lenz (Column 7, Line 64 - Column 8, Line 25), to allow local control of the pressure at the substrate surface during plasma processing, and thereby, among other benefits, to improve response time.

In regards to Applicant's argument that Imafuku teaches away from the claimed invention by not teaching the claimed invention, and that to combine the teachings of Lenz with those of Imafuku would be redundant, Examiner must disagree. That Imafuku et al. already teaches that the magnetic rings provide a means for trapping the plasma within a desired space would not deter one of ordinary skill in the art from combining the teachings of Imafuku et al. with those of Lenz, with a reasonable expectation of success in attaining an additive benefit, as taught by Lenz, of allowing local control of the pressure at the substrate surface during plasma processing. Moreover, Applicant has not presented any evidence tending to show non-obviousness of combining the teachings of Imafuku et al. and Lenz, such as evidence of unexpected results in combining the magnetic elements with the confinement rings.

In response to applicant's argument that the cited prior art does not expressly teach that the purpose of the combination of the magnetic field and the confinement rings is to magnetically enhance the physical confinement of the plasma, wherein the magnets direct charged particles into the confinement rings and/or cause them to collide with the confinement rings, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See Ex parte Obiaya, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). The apparatus taught by the combination of Imafuku et al. and Lenz is structurally the same as the claimed invention, and Examiner contends that such apparatus would inherently produce interaction between the plasma and the confinement rings as recited in Claim 3, due to the interaction between the magnetic field and the charged particles of the plasma. Moreover, such interaction between the magnetic field and the charged particles of the plasma, even if very strong as argued by Applicant, would still represent an enhancement over the physical confinement offered by confinement rings alone, contrary to Applicant's argument. Moreover, Applicant has not provided any evidence tending to show any unexpected results obtained in combining the use of magnetic elements as taught by Imafuku et al. and confinement rings as taught by Lenz.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Specifically in regards to Applicant's argument against the rejection of Claim 5, that the combination of Imafuku et al. and Lenz does not expressly teach the specific spatial relationship between the magnetic field elements and the confinement rings, this is recognized. For that reason, the rejection is further based on Examiner's argument that the inner and outer diameter of the confinement rings is not believed to cause a difference in performance of the apparatus, since narrower or wider confinement rings would still be just as capable of closing and opening the variable gap. Therefore, the relative dimensions between the confinement rings and the magnetic elements is similarly considered not to patentably distinguish the claimed invention from that taught by the combination of Imafuku et al. and Lenz. In Gardner v. TEC Systems, Inc., 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.

In regards to Applicant's argument that it if one of ordinary skill in the art were to, through routine experimentation, modify the combination of Imafuku and Lenz to provide confinement rings with specific diameters in order to optimize the particular magnetic field that is produced and the confinement of the charged particles within the plasma volume, such experimentation would produce the strongest magnetic field and not the canted magnetic fields claimed, this argument is not persuasive. The rejection is based on the obviousness of routine experimentation in changing the diameters of the confinement rings in order to optimize for the particular desired result the particular magnetic field that is produced and the confinement of the charged particles within the plasma volume. Examiner disagrees that the only possible outcome of such routine experimentation would be the strongest possible magnetic field or the strongest possible magnetic confinement. Rather, the outcome of such routine experimentation could be any number of configurations, including the claimed configuration, according to the result and level of confinement desired by the experimenter.

Applicant's remaining arguments rely on the Declaration under 37 C.F.R. 1.132, which will not be entered.